

1 – 4. (canceled)

5. (new) A wave energy plant for electricity generation, said plant comprising:

- a fixed structure;
- a float;
- a generally horizontally disposed mechanical arm having an end connected to said float;
- said mechanical arm having an opposite end articulately connected to said fixed structure;
- a hydraulic pump for pumping water, said hydraulic pump being actuated by said mechanical arm;
- a hyperbaric chamber having an inlet in fluid communication with said hydraulic pump and an outlet, said hyperbaric chamber storing pressurized water delivered by said hydraulic pump;
- a turbine in fluid communication with said hyperbaric chamber outlet;
- an electric generator connected to said turbine;
- whereby pressurized water is supplied to said turbine through said hyperbaric chamber outlet to drive said turbine and to generate electricity.

6. (new) The wave energy plant of claim 5, wherein said hyperbaric chamber contains one selected from a group consisting of a mixture including water and nitrogen gas and a mixture including water and air.

7. (new) The wave energy plant of claim 5, including an outflow regulating valve connected to said hyperbaric chamber outlet, said outflow regulating valve comprising:

- a main body;
- an outflow adjustment needle moveable in said main body;
- a valve distance adjustment ring disposed around said main body;
- a valve setting main structure connected to said main body; and

a mechanical set for outflow fine adjustment including moveable claws cooperable with said outflow adjustment needle.

8. (new) The wave energy plant of claim 7, wherein said outflow regulating valve outputs water at a high pressure and low flow rate.